

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/561,075
Source: JEW
Date Processed by STIC: 12/30/2005

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IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/561,075

DATE: 12/30/2005

TIME: 09:24:36

Input Set : A:\11916.0065.00PC00.ST25.txt
 Output Set: N:\CRF4\12302005\J561075.raw

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3 <110> APPLICANT: Wang, Tianlin
4      Lohuis, Michael M.
5      Kojima, Cheryl J.
6      Du, Fengxing
7      Byatt, John C.
9 <120> TITLE OF INVENTION: MARKER ASSISTED BEST LINEAR UNBIASED PREDICTION (MA-BLUP) :
10     SOFTWARE ADAPTIONS FOR PRACTICAL APPLICATIONS FOR LARGE BREEDING
11     POPULATIONS IN FARM ANIMAL SPECIES
13 <130> FILE REFERENCE: 11916.0065.00PC00
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/561,075
C--> 15 <141> CURRENT FILING DATE: 2005-12-19
15 <150> PRIOR APPLICATION NUMBER: US 60/543,034
16 <151> PRIOR FILING DATE: 2004-02-09
18 <160> NUMBER OF SEQ ID NOS: 3
20 <170> SOFTWARE: PatentIn version 3.3
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 5888
24 <212> TYPE: DNA
25 <213> ORGANISM: Sus scrofa
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31 <223> OTHER INFORMATION: Sequence for AMPK gamma subunit
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38 gtagaggaag gggggcctcc gggcccgagg gaagggtgagt tcaaggccag ttctggggag          180
40 ctgggactgg gggcagtggg cagtcctcaa acctggggcc cgtctctgtt ctgtccctc          240
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| 76 tggaaacattt ggttccgtgc ttctcgctgt gtgcactatt tgattctagt ggaatatgaa | 1320 |
| 78 caaatacatt tcattgttagt gctttgtat ttataatatt agatattttt caatattaga | 1380 |
| 80 aaattacagt cagcaggtgt agatagtctt gtttaggggt aggcccaa at aagtcaatgt | 1440 |
| 82 aaaattttt tagggaaaaa tattttgtaa atattataca cataatttca cctctagcac | 1500 |
| 84 ttaacaaaat cgatactatg tttgtctgtt cacttatgac tttggagtag aacactggg | 1560 |
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| 92 cctggctggc aggggaccc tcattgttagt gcaaggccgg accctcaact gttctctccg | 1800 |
| 94 gcgcctcagat caagaaggcc ttctttggcc tggtgccaa cggcgtccga gcggcacctt | 1860 |
| 96 tttggggacag caagaaggcag agtttcgtgg tttggggagg gctggggagg cagaggttgt | 1920 |
| 98 ggggaaaggga ataggggggc ttgtggggg gattcttaggg ccgagctctg acacaccaca | 1980 |
| 100 ggcttcaacc aacggggc ctggccttgg gaggggggg gcatatttgc cccgtctcc | 2040 |
| 102 ggtggccagc tggggatctt caactgttagg agagctgtga ccagctgacc cctccagctc | 2100 |
| 104 tactacccca aggtccctgt cgcaggtgt aagtaagaag aggacaggcg gagaaggaa | 2160 |
| 106 gtcagaaaat agaagaagca gggcaggaag gagagaaaatg acaggggaag cataagagg | 2220 |
| 108 acaacccat ttgtcaggca cggggggg tgccttcctg tcctttttt gcccacccctca | 2280 |
| 110 gtaaaaaggat gttggcaggg tggggggagg gccccggct gacccctt gctccctcg | 2340 |
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| 122 aggtttcctg gaggaagcgg gaggagggtt atcgggagcc cagggatct aaggaggg | 2700 |
| 124 gacagtctgg gggtggccac gtgaggcggg gtggcggcc cttttgtgtt gattctggct | 2760 |
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| 130 cagctcatcg ttcttaagct catggactca tcgtccgtt actgcagatg cggcagctt | 2940 |
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| 158 atgaaacatt tccaaatgttca acatggca gaaaaacta taatgaaccc cactgtatcca | 3780 |
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| 164 tgcctctttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt | 3960 |
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| 174 | gcctgttagc tttccacagg tagcccttat tttttctc tattcctgcg tttctgtga | 4260 |
| 176 | ccgggaaatt agcttaaag gctggatca attcaggcta gacatttcaa cctagaataat | 4320 |
| 178 | tccagaggtg atccatgtt ctcctgttc atcatattag gaggcatgac ggcagggtgt | 4380 |
| 180 | tctctctgtg tgatgttatt tgatctgtgg gtcaggtgc tggccgtctg atgcctca | 4440 |
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| W--> 184 | tcannatcct ggntctgacc caaacctctc ccctgtctt ctcacaccc cttccctgcc | 4560 |
| 186 | cctccatcc cccacaggac aggttgtgg cctctactt cgcttgcgt tgatcgtaag | 4620 |
| 188 | tatctatggg gaacggaggg gacctgggg accacaggaa ggctgtgtg tgaagatgga | 4680 |
| 190 | tggaggtgg tatctgtggc ccaggaggc ctttacagtg tataatagaga gattattgt | 4740 |
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| 196 | tgtgtctggc aggcgtcctt tcctgcccac cccacgagac cttggggaa gtcattgacc | 4920 |
| 198 | ggattgtccg ggaacaggta ccccaagcccc ttcatgcctg ctcccaacat gtagggcccc | 4980 |
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| 204 | ggggccctca gggcaaggc cacagccagc tgatcacca ggggtgtcac agccacccgt | 5160 |
| 206 | aagcagtttcc taggagaccc tctgaggcact ccccaagttt gttaaatgt tgccctgtat | 5220 |
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| 214 | cggggcctga gaacotttggc acctttgttc tcaggccacc tggcacaccc ggaagccagt | 5460 |
| 216 | gaaggggagcc gtggacttgc ctctcacttc ccctcagccc cacttgcgtt tctggcttt | 5520 |
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| 226 | cagtgcgtt cttcaggac ctccggggag tttagagctgc cctctctcag ttcaagtccc | 5820 |
| 228 | ccctgcttag aatgtccctg gaagggaaatc agttataaa cttgggttgg atgaaatttgc | 5880 |
| 230 | cacactcg | 5888 |
| 233 | <210> SEQ ID NO: 2 | |
| 234 | <211> LENGTH: 421 | |
| 235 | <212> TYPE: DNA | |
| 236 | <213> ORGANISM: Sus scrofa | |
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| 249 | aatgtccctaa cagaattttat ttatgtgtata actgcatttgc acttggcata tccaaattact | 180 |
| 251 | ccttggaaat ttaagttgtc ttgcattgc cccaaatccaa catatgcatttgccttgc | 240 |
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| 255 | gaacttaatw yaagtggatc ctacttatca aacttatctt ctaaaaacaaat tttccactgt | 360 |
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| 262 | <210> SEQ ID NO: 3 | |

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270 <222> LOCATION: (56)..(56)
271 <223> OTHER INFORMATION: Xaa = Met or Thr
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276 <223> OTHER INFORMATION: Xaa = Ser or Ile
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281 1 5 10 15
284 Pro Trp Lys Phe Lys Leu Ser Cys Met Pro Pro Asn Thr Thr Tyr Asp
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288 Phe Leu Leu Pro Ala Gly Ile Ser Lys Asn Thr Ser Thr Leu Asn Gly
289 35 40 45
W--> 292 His Asp Glu Ala Val Val Glu Xaa Glu Leu Asn Xaa Ser Gly Thr Tyr
293 50 55 60
296 Leu Ser Asn Leu Ser Ser Lys Thr Thr Phe His Cys Cys Phe Trp Ser
297 65 70 75 80
300 Glu Glu Asp Lys Asn Cys Ser Val His Ala Asp Asn Ile Ala Gly Lys
301 85 90 95

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 4504, 4505, 4513
Seq#:3; Xaa Pos. 56, 60

VERIFICATION SUMMARY

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Input Set : A:\11916.0065.00PC00.ST25.txt
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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:4500

L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48